

## A NEW GENUS AND A NEW SPECIES OF METRODORIDAE FROM TAIWAN (ORTHOPTERA)

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**Abstract** A new genus and a new species of Metrodoridae from Taiwan is described, that is *Pseudomacromotettix* gen. nov. and *Pseudomacromotettix taiwanensis* sp. nov. The new genus is allied to *Macromotettix* Gunther and *Macromotettixoides* Zheng, but differs in: 1) without tegmina, hind wings extremely small; 2) apex of posterior pronotal process broadly rounded. Type specimens are kept in the Institute of Zoology, Shaanxi Normal University.

**Key words** Orthoptera, Metrodoridae, new genus, new species, Taiwan.

During Aug. 2006, College of Life Sciences of Nankai University collected some tetrigides specimens from South of Taiwan, among them, one new genus and one new species of the Metrodoridae was found, now described as follows. Type specimens are kept in the Institute of Zoology, Shaanxi Normal University.

### *Pseudomacromotettix* gen. nov.

Body small. Head slightly exserted above the pronotal surface, anterior margin of vertex straight. Antennae filiform, inserted between lower margins of eyes. Anterior margin of pronotum straight, hind process short and broad, apex broadly rounded;

humeral apex ridge and lower margin of pronotum connected after the middle of pronotum; posterior margin of lateral lobes of pronotum with 2 concavities, apex of posterior angles truncated. Without tegmina, hind wings extremely small. First segment of posterior tarsi longer than the sum of the second and the third.

Type specimens: *Pseudomacromotettix taiwanensis* sp. nov.

The new genus is allied to *Macromotettix* Gunther and *Macromotettixoides* Zheng, the main differences were listed in Table 1.

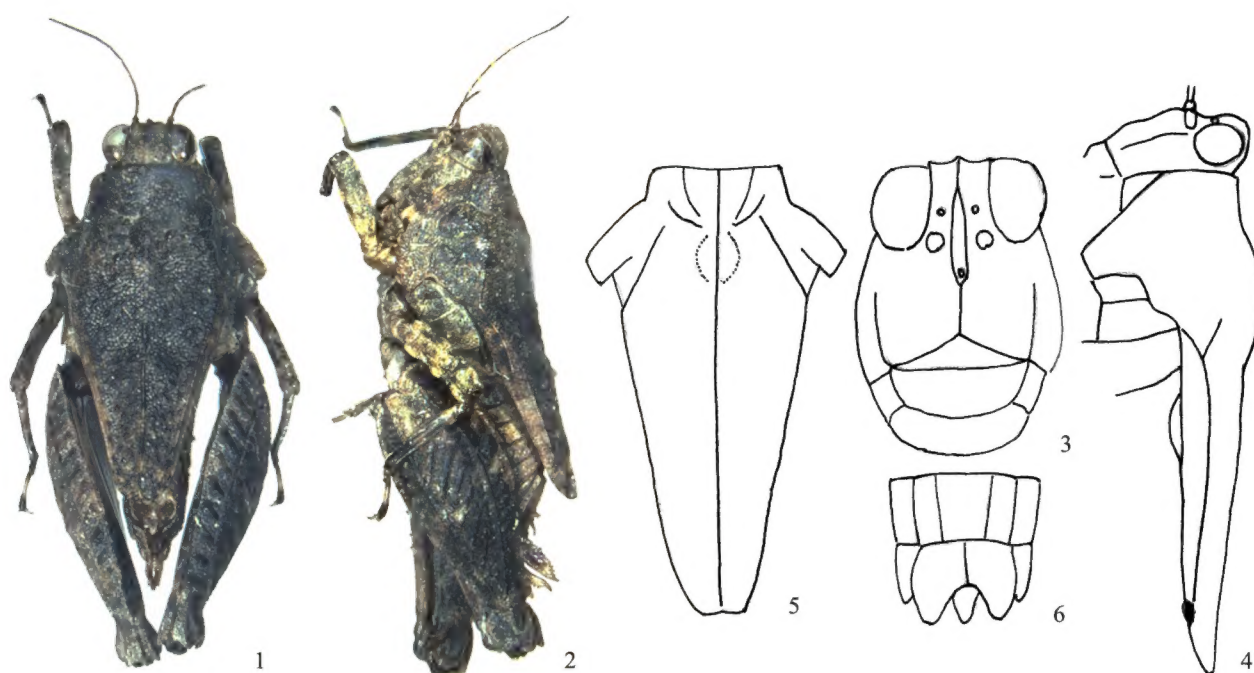
Table 1. Differences between *Pseudomacromotettix* gen. nov. and its allies.

	<i>Macromotettix</i>	<i>Pseudomacromotettix</i> gen. nov.	<i>Macromotettixoides</i>
Hind margin of lateral lobe of pronotum	With two concavities	With two concavities	With one concavity
Anterior margin of pronotum	Straight	Straight	Obtuse angular
Tegmina and hind wings	With tegmina, hind wings developed	Without tegmina, hind wings extremely small	Without tegmina and hind wings
Hind process of pronotum	Narrow and long, apex sharp	Short and broad, apex broadly rounded	Narrow and long, apex sharp

### *Pseudomacromotettix taiwanensis* sp. nov.

Female. Body small, Head slightly exserted above the pronotal surface. Width of vertex equal to the width of an eye, anterior margin straight, slightly protruding beyond eyes, lateral margin slight reflexed, median carina conspicuous; in profile, vertex and frontal ridge forming round shape, slightly protruding archly between antennae; width of longitudinal furrow equal to width of first segment of antennae. Antennae filiform, inserted between lower margin of eyes, slender, length of the middle segment 5–6 times as its width. Eyes globose, protruding, lateral ocelli placed in the middle of anterior margins of eyes. Disc of

pronotum with numerous small rough tubercles, anterior margin of pronotum straight, midkeel of pronotum completed, upper margin of pronotum crooked before shoulders and straight behind shoulders in profile. Lateral keels of prozona constricted backward, humeral angle obtuse; humeral apex ridge and lower margin of pronotum connected at 4/5 lower margin of pronotum; hind process short and broad, reaching 2/3 hind femur, apex broadly rounded; posterior margin of lateral lobes of pronotum with 2 concavities, apex of posterior angles almost truncated. Without tegmina, hind wings extremely small, not reach posterior margin of metapleura. Upper margin



Figs 1–2. *Pseudomacromotettix taiwanensis* sp. nov., body. 1, 5. Dorsal view. 2, 4. Lateral view. 3. Head, frontal view. 4. Head and pronotum. 5. Pronotum. 6. Female, subgenital plate.

of anterior femur slightly arc, lower margin undulated; width of mid femur slightly wider than fore femur, upper and lower margin undulated; hind femur burly, with length 2.33 times as its width, antegenicular denticles right angle, genicular denticles obtuse; outer side of hind tibia with 6 spines, inner side with 6 spines, first segment of posterior tarsi longer than the sum of the second and the third, the first and second pulvillus small, apex acute, the third big, apex obtuse. Supra-annal plate long triangular, cercus short taper; ovipositor long, length of upper valvula 3.75 times as its width, upper and lower valvulae with slender saw-like teeth. Length of subgenital plate equal to its width, posterior margin with 3 teeth.

Body dark brown, antennae brown, anterior and middle femora and tibiae with 2 black rings, lower inner side of hind femur black, hind tibia black.

Male. Unknown.

♀ Length of body 10.0–10.5 mm. Length of

pronotum 6.0–6.5 mm. Length of hind femur 6.5–7.0 mm.

Holotype ♀, Taiwan, Gaoxiong (Chaishan) (22°6'N, 120°3'E; alt. 50–100 m), 22 Aug. 2006, collected by LI Hou-Hun and DU Xi-Cui. Paratype 1 ♀, same data as holotype.

Etymology. The specific name is derived from the type locality “Taiwan”.

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## 台湾省短翼蚱科一新属一新种 (直翅目)

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**摘要** 记述采自台湾地区短翼蚱科1新属1新种, 伪大磨蚱属 *Pseudomacromotettix* gen. nov. 及台湾伪大磨蚱 *Pseudomacromotettix taiwanensis* sp. nov.。新属近似于大磨蚱属

**关键词** 直翅目, 短翼蚱科, 新属, 新种, 台湾。

中图分类号 Q969.26

*Macromotettix* Gunther 及拟大磨蚱属 *Macromotettixoides* Zheng, 主要区别为缺前翅, 后翅极小; 前胸背板后突顶宽圆形。模式标本保存于陕西师范大学动物研究所。